Attorney Docket No. 10544-288

I. Listing of the Claims

- 1. through 35. (Cancelled)
- 36. (Currently amended) An x-ray reflective optic comprising:

an optic optical element which conditions an x-ray beam, the optical element optic defining a near end and a far end and including a first optical element defining a first reflective surface and a second optical element defining a second reflective surface orthogonal to the first reflective surface, the first and second reflective surfaces reflecting x-rays transmitted from an x-ray source; and

an aperture attached to the far end of the optical element, the aperture being adjusted to adjust the which adjusts convergence of the x-ray beam by selecting a portion of the x-ray beam delivered by the optical element.

- 37. (Original) The x-ray reflective optic of claim 36 wherein the aperture is a diaphragm.
- 38. (Original) The x-ray reflective optic of claim 36 wherein the aperture includes a fixed portion and a movable portion that is movable relative to the fixed portion, the aperture being adjusted by moving the movable portion relative to the fixed portion.
- 39. (Currently amend) The x-ray reflective optic of claim 36 38 wherein the fixed portion is a slit and the movable portion is a blade that moves across the slit.
- 40. (Currently amended) The x-ray reflective optic of claim 36 38 wherein the fixed portion is a pinhole and the movable portion is a blade that moves across the pinhole.



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- 41. (Currently amended) The x-ray reflective optic of claim 36 38 wherein the fixed portion is a fixed blade and the movable portion is a movable blade.
- 42. (Original) The x-ray reflective optic of claim 36 wherein the optical element is a two-dimensional optical element.
- 43. (New) The x-ray reflective optic of claim of claim 36 wherein at least one reflective surface has a substantially elliptic shape.
- 44. (New) The x-ray reflective optic of claim 43 wherein both reflective surfaces have a substantially elliptic shape.
- 45. (New) The x-ray reflective optic of claim 43 wherein one reflective surface has a substantially elliptic shape and the other reflective surface has a substantially parabolic shape.
- 46. (New) The x-ray reflective optic of claim 36 wherein at least one reflective surface has a substantially parabolic shape.
- 47. (New) The x-ray reflective optic of claim 46 wherein both reflective surfaces have a substantially parabolic shape.
- 48. (New) The x-ray reflective optic of claim 41 wherein the fixed blade and the movable blade are positioned at or near the <u>a</u> distal portion of the x-ray reflective optic relative to the source.
- 49. (New) The x-ray reflective optic of claim 41 wherein the fixed blade and the movable blade are each substantially L-shaped.

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- 50. (New) The x-ray reflective optic of claim 41 wherein the movable blade is movable from a high-convergence position to a low-convergence position.
- 51. (New) The x-ray reflective optic of claim 50 wherein in the low-convergence position, the movable blade occludes x-rays reflected from a far portion of the x-ray reflective optic.
- 52. (New) The x-ray reflective optic of claim 36 wherein the first optical element is a first multilayer optic and the second optical element is a second multilayer optic.
- 53. (New) The x-ray reflective optic of claim 52 wherein the first multilayer optic and the second multilayer optic have graded d-spacing.
- 54. (New) The x-ray reflective optic of claim 53 wherein the first multilayer optic and the second multilayer optic have depth graded d-spacing.
- 55. (New) The x-ray reflective optic of claim 53 wherein the first multilayer optic and the second multilayer optic have laterally graded d-spacing.
- 56. (New) The x-ray reflective optic of claim 36 wherein the first optical element is a first x-ray reflective crystal and the second optical element is a second x-ray reflective crystal.
- 57. (New) The x-ray reflective optic of claim 36 wherein the aperture is positioned between the source and the first and second optical elements.
- 58. (New) The x-ray reflective optic of claim 36 wherein the aperture is attached to the far end of the optic.

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59. (New) The x-ray reflective optic of claim 36 wherein the aperture is attached to the near end of the optic.

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